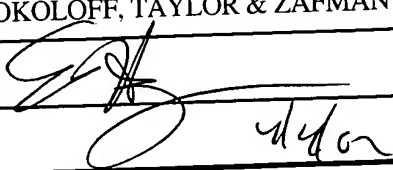


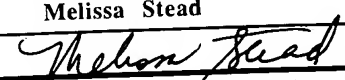
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/21(08/00)
Approved for use through 19/30/2000. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/071,127	
	Filing Date	February 8, 2002	
	First Named Inventor	Il-yong Park	
	Group Art Unit		
	Examiner Name		
Total Number of Pages in This Submission	26	Attorney Docket Number	2013P015

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) Remarks	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): <div>Form 1449; Prior Art References (18); return postcard</div>

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Eric S. Hyman, Reg. No. 30,139 BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN
Signature	
Date	

CERTIFICATE OF MAILING (OR TRANSMISSION)			
I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class mail with sufficient postage in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on: 4-5-02			
Typed or printed name	Melissa Stead	Date	4-5-02
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Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

APR 29 2002

PTO/SB/17 (10-01)

Approved for use through 10/31/2002. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, persons are required to respond to a collection of information unless it displays a valid OMB control number.**FEE TRANSMITTAL**
for FY 2002

Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$)

Complete If Known

Application Number	10/071,127
Filing Date	02/08/02
First Named Inventor	Il-yong Park, et al.
Examiner Name	
Group Art Unit	
Attorney Docket Number	2013P015

METHOD OF PAYMENT (check all that apply)
☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None
☒ Deposit AccountDeposit Account Number
Deposit Account Name

02-2666

Blakely, Sokoloff, Taylor & Zafman

The Commissioner is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☒ Credit any overpayments
☒ Charge any additional fee(s) during the pendency of this application.
☐ Charge fee(s) indicated below, except for the filing fee, to the above-identified deposit account
FEE CALCULATION**1. FILING FEE**

Large Entity Code	Large Entity Fee (\$)	Small Entity Code	Small Entity Fee (\$)	Fee Description	Fee Paid
101	740	201	370	Utility filing fee	
106	330	206	165	Design filing fee	
107	510	207	255	Plant filing fee	
108	740	208	370	Reissue filing fee	
114	160	214	80	Provisional filing fee	

SUBTOTAL (1) (\$)

2. CLAIMS

Total Claims	Extra	Fee from below	Fee Paid
13			
2			

Multiple Dependent Claims

Large Entity Code	Large Entity Fee (\$)	Small Entity Code	Small Entity Fee (\$)	Fee Description
103	18	203	9	Claims in excess of 20
102	84	202	42	Independent claims in excess of 3
104	280	204	140	Multiple Dependent claim
109	84	209	42	Reissue independent claims over original patent
110	18	210	9	Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$)

*or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEE**

Large Entity Code	Large Entity Fee (\$)	Small Entity Code	Small Entity Fee (\$)	Fee Description
105	130	205	65	Surcharge - late filing fee or oath
127	50	227	25	Surcharge - late provisional filing fee or cover sheet
139	130	139	130	Non-English specification
147	2,520	147	2,520	For filing a request for ex parte reexamination
112	920	112	920	Requesting publication of SIR prior to Examiner action
113	1,840	113	1,840	Requesting publication of SIR after Examiner action
115	110	215	55	Extension for response within first month
116	400	216	200	Extension for response within second month
117	920	217	460	Extension for response within third month
118	1,440	218	720	Extension for response within fourth month
128	1,960	228	980	Extension for response within fifth month
119	320	219	160	Notice of Appeal
120	320	220	160	Filing a brief in support of an appeal
121	280	221	140	Request for oral hearing
138	1,510	138	1,510	Petition to institute a public use proceeding
140	110	240	55	Petition to revive - unavoidably
141	1,280	241	640	Petition to revive - unintentionally
142	1,280	242	640	Utility issue fee (or reissue)
143	460	243	230	Design issue fee
144	620	244	310	Plant issue fee
122	130	122	130	Petitions to the Commissioner
123	50	123	50	Petitions related to provisional applications
126	180	126	180	Submission of Information Disclosure Stmt
581	40	581	40	Recording each patent assignment per property (times number of properties)
146	740	246	370	Filing a submission after final rejection (37 CFR 1.129(a))
149	740	249	370	For each additional invention to be examined (37 CFR 1.129(b))
179	740	279	370	Request for Continued Examination (RCE)
169	900	169	900	Request for expedited examination of a design application

Other fee (specify)

SUBTOTAL (3) (\$)

* Reduced by Basic Filing Fee Paid

SUBMITTED BY

Typed or Printed Name

Eric S. Hyman, Reg. No. 30,139

Registration No. (Attorney/Agent)

Telephone

(310) 207-3800

Signature

Date

4/4/02

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

IL-YONG PARK, ET AL.

Application No.: 10/071,127

Filed: February 8, 2002

For: **METHOD OF FABRICATING POWER
SEMICONDUCTOR DEVICE
HAVING TRENCH GATE
STRUCTURE**



Art Group:

Examiner:

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INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

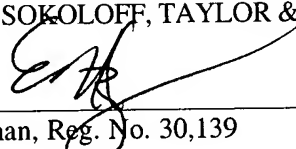
Pursuant to Rule 1.97, Applicant desires to make of record the reference(s) set forth on the attached Form PTO 1449 (or PTO/SB/08). A copy of each reference is submitted herewith.

It is hereby stated that this Information Disclosure Statement is being filed within three months of the filing date of the subject application, therefore no petition or fee is required. However, in the event a petition is needed for consideration of this Information Disclosure Statement, Applicant hereby so petitions. Please charge any additional fee due to Deposit Account 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Date: 4/4/02


Eric S. Hyman, Reg. No. 30,139

CERTIFICATE OF MAILING

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12400 Wilshire Blvd., 7th Floor
Los Angeles, California 90025
Telephone: (310) 207-3800

 4-5-02
Melissa Stead

Date



Form PTO-1449 (Modified)	Atty Docket No. 2013P015	Application No. 10/071,127
List of Patents & Publications Statement	Applicant(s): Il-yong Park, et al.	
(Use several sheets if necessary)	Filing Date: February 08, 2002	Group No.:

U.S. PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Name	Class	Sub-class	Filing Date (if appropriate)
	AA	5,567,634	10/22/1996	Hebert et al.	437	41	
	AB	5,665,619	09/09/1997	Kwan et al.	438	270	
	AC	5,689,128	11/18/1997	Hshieh et al.	257	331	
	AD	5,970,344	10/19/1999	Kubo et al.	438	270	
	AE	6,238,981	05/29/2001	Grebs	438	272	
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

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FOREIGN PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Country	Class	Sub-class	Translation Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							
	AQ							

OTHER ART (Including Title, Author, Date, Pertinent Pages, etc.)

Exam. Initials		Document Identification
	AR	IEEE 2000, "A 0.03um Trench Gate MOSFET with an ultra low on state resistance and a high destruction immunity during the inductive switching", A. Narazaki, et al., 3 pages
	AS	IEEE 1999, "2.5V-Driven Nch 3rd Generation Trench Gate MOSFET", A Osawa, et al., 4 pages
	AT	2001 International Symposium on Power Semiconductor Devices ICs, "An ultra Dense Trench-Gated Power MOSFET Technology Using a Self-Aligned Process", J. Zeng, et al., 4 pages

Examiner: _____ Date Considered: _____

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication



Form PTO-1449 (Modified)	Atty Docket No. 2013.P015	Application No. 10/071,127
List of Patents & Publications Statement	Applicant(s): Il-yong Park, et al.	
(Use several sheets if necessary)	Filing Date: February 8, 2002	Group No.:

U.S. PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Name	Class	Sub-class	Filing Date (if appropriate)
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

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FOREIGN PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Country	Class	Sub-class	Translation Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							
	AQ							

OTHER ART (Including Title, Author, Date, Pertinent Pages, etc.)

Exam. Initials		Document Identification
	AR	2001 Elsevier Science, Journal of Alloys and Compounds 323-324, "The blue-phosphor Sr ₂ CeO ₄ synthesized by Pechini's method", O.A. Serra, et al., 3 pages
	AS	2001 International Symposium on Power Semiconductor Devices ICs, "Recessed Trench MOSFET Process Without Critical Alignments Makes Very High Densities Possible", A. Finney, et al., 4 pages
	AT	2001 Elsevier Science Ltd., "A process simplification scheme for fabricating self-aligned silicided trench-gate power MOSFETs", M. Juang, 4 pages

Examiner: _____ Date Considered: _____

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication

APR 29 2002

Form PTO-1449 (Modified)		Atty Docket No. 2013.P015	Application No. 10/071,127
List of Patents & Publications Statement		Applicant(s): Il-yong Park, et al.	
(Use several sheets if necessary)		Filing Date: February 8, 2002	Group No.:

U.S. PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Name	Class	Sub-class	Filing Date (if appropriate)
	AA						
	AB						
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	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

Exam. Initials		Document Number	Date	Country	Class	Sub-class	Translation Yes No	
	AL							
	AM							
	AN							
	AO							
	AP							
	AQ							

OTHER ART (Including Title, Author, Date, Pertinent Pages, etc.)

Exam. Initials		Document Identification
	AR	IEEE 2000, "High-Density Low On-Resistance Trench MOSFETs Employing Oxide Spacers and Self-Align Technique for DC/DC Converter", J. Kim, et al., 4 pages
	AS	
	AT	

Examiner: _____ Date Considered: _____

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication